

Timolyn Henry

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From: S. Denise Hill [dhill@publicpower.com]
Sent: Wednesday, May 31, 2006 2:28 PM
To: Filings@psc.state.fl.us
Subject: Mount Dora Storm Hardening Report

Attachments: Mount Dora Storm Hardening Report.doc



Mount Dora Storm
Hardening Rep...

Dear Sir/Madam,

Attached is the Implementation Plan for Ongoing Storm Preparedness for the City of Mount Dora.

Thank you,

Denise

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Ongoing Storm Preparedness Implementation Plan
City of Mount Dora, Florida
May 15, 2006

A. Introduction

This is the Storm Preparedness report by the City of Mount Dora (City) located in Lake County, Florida. For information contact:

Mr. Charles F. Revell, P.E.
Electric Utility Manager
1250 North Highland Street
Mount Dora, FL 32757
(352) 735-7155, ex 1802
revellc@cityofmountdora.com

The City is an inland community not normally affected by hurricane strikes. During 2004, Hurricanes Charlie, Jeanne, and Francis caused relatively minor damage to the City's electric distribution system. Outages during Hurricane Charlie were limited to several hours. Some outages during Hurricanes Jeanne and Francis extended to several days. The City currently serves approximately 5,800 electric customers.

B. Three-Year Vegetation Management Cycle

The City Electric Division trims trees on a 12 month cycle using an outside contractor with a two-man crew working 40 hours per week. This contractor focuses exclusively on clearing vegetation that could adversely impact the reliability of the electric distribution system. In addition to the contractor crew, the City employs one two-man crew that is continuously trimming trees and reducing vegetative growth throughout other parts of the City. In some situations, the City crew assists the contractor crew in trimming or removing large trees.

C. Transmission and Distribution Geographic Information System

The City is currently utilizing hard-copy maps to manage the facilities of its electric distribution system. However, the City is making a comprehensive study to begin implementation of a city-wide GIS system. Once available, the Electric Division will utilize the GIS system to map and manage all of its distribution facilities including wood and concrete poles, attached hardware, pole attachments by other entities, and underground electrical facilities.

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D. Wooden Transmission vs. Concrete Transmission Structures

This section is not applicable to the City of Mount Dora – the City owns no transmission facilities within its electric service territory. The City receives transmission service from Progress Energy.

E. Post-Storm Data Gathering, Data Retention and Forensic Analysis

Outage report forms are completed for every outage on our system. The following information is collected: date and time of the outage, time duration, number of customers affected, cause of the outage, impact on protective equipment, and corrective actions taken. When major outage events occur, City electric staff meets to analyze the causes and recommend equipment and/or operational changes necessary to avoid similar outages in the future.

F. Audit of Joint-Use Pole Attachment Agreements

The City currently audits pole attachments during regular inspections of its distribution lines by utility personnel.

The City has not performed rigorous stress calculations on joint-use distribution poles. However, during the field audit, knowledgeable field personnel examine City electric facilities to identify obviously overloaded poles. The City has not experienced any failures of poles due to overloading by pole attachments of other entities.

G. Six-year Transmission Inspection Program

This section is not applicable to the City of Mount Dora – the City owns no transmission facilities within its electric service territory. The City receives transmission service from Progress Energy.

H. Collection of Outage Data Differentiating Between the Reliability Performance of Overhead and Underground Systems

The City calculates the various reliability indices (SAIDI, CAIDI, SAIFI, MAIFe, and L-Bar) for the system as whole and does not differentiate between overhead and underground outages. However, it would be a relatively easy matter to calculate each of the indices separately for overhead and underground.

I. Coordination with Local Governments

The City is the local government and we trim the trees of our entire distribution system annually, as discussed in Section B.

The City has back-up generators at the electric operations building, City Hall, the Public Safety building, water plant, wastewater treatment plants, and the majority of lift stations.

J. Collaborative Research Through the Public Utility Research Center (PURC) at the University of Florida

The City of Mount Dora, through its membership in the Florida Municipal Electric Association and its involvement with Public Utility Research Center (PURC) at the University of Florida, participates in PURC activities related to storm hardening research.